

FIG. 1A



FIG. 1B



FIG. 1C

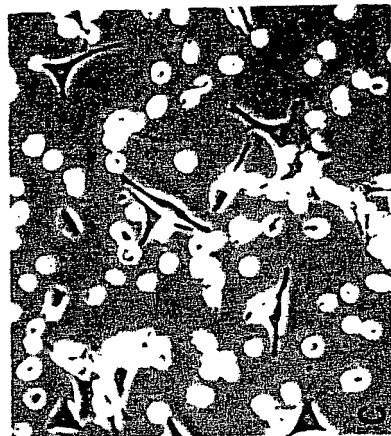


FIG. 1D

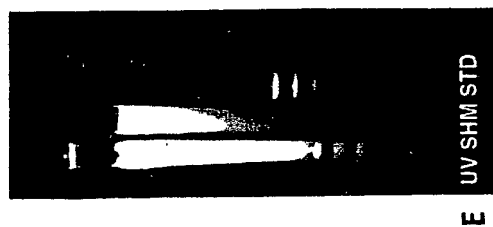


FIG. 1E

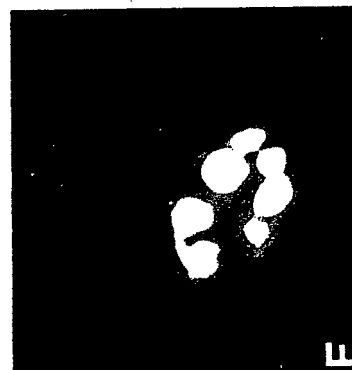


FIG. 1F



FIG. 1G

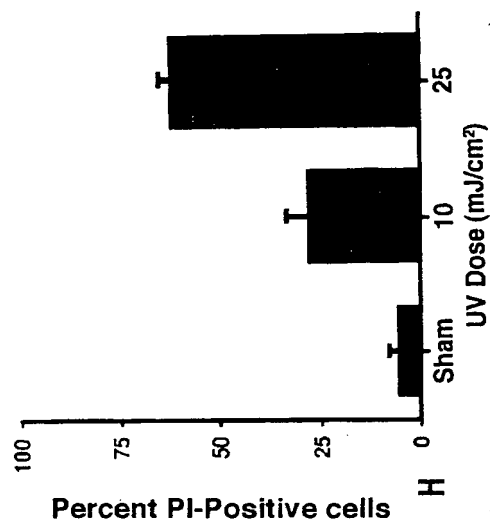


FIG. 1H

FIG. 2A

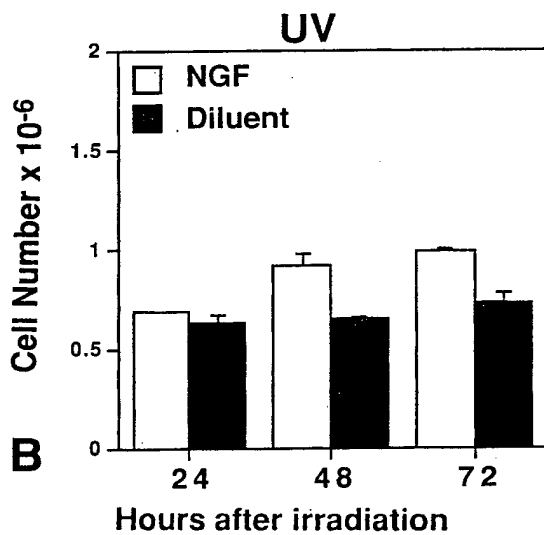
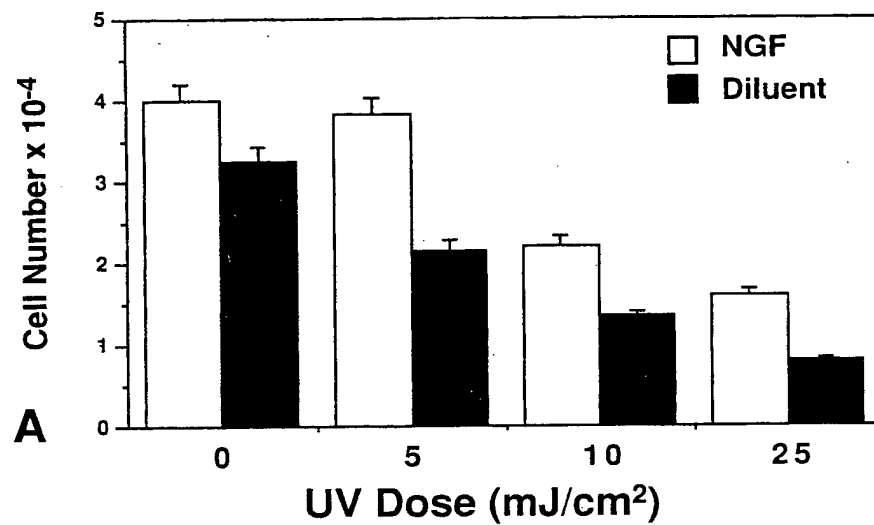


FIG. 2B

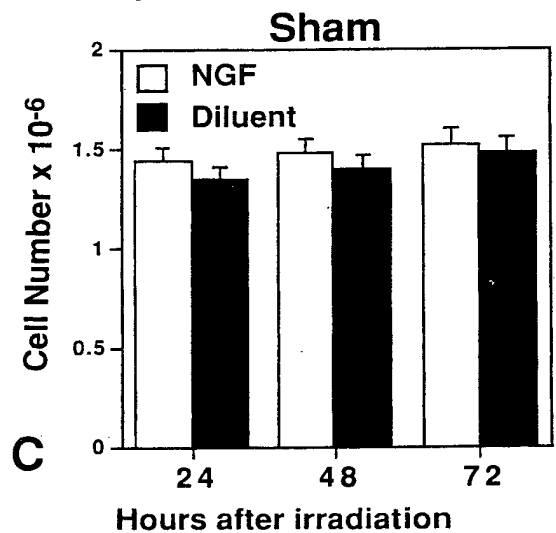


FIG. 2C

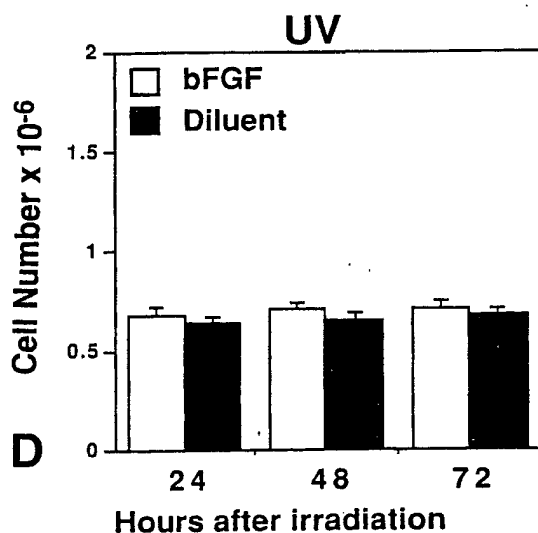


FIG. 2D

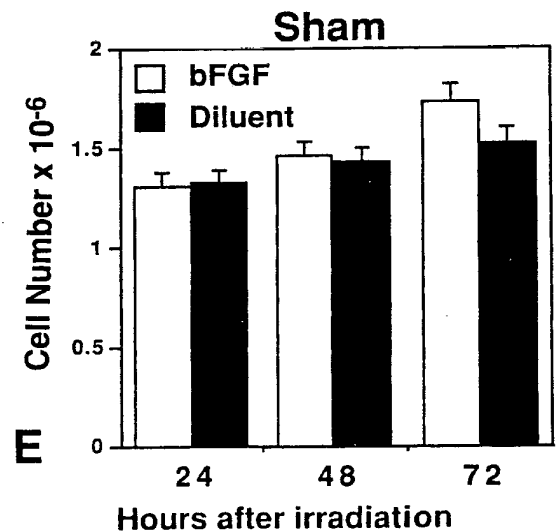


FIG. 2E

FIG. 2F

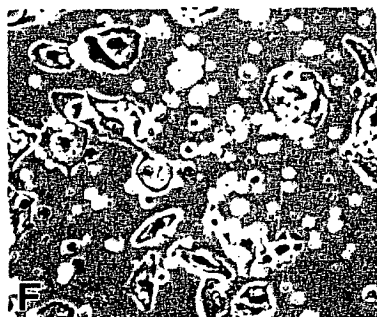


FIG. 2G

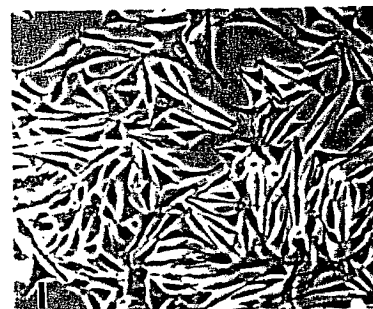
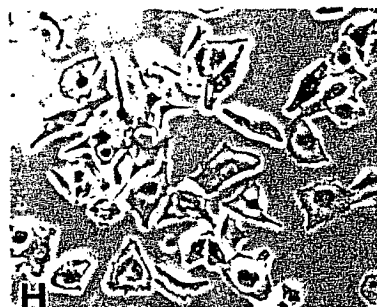
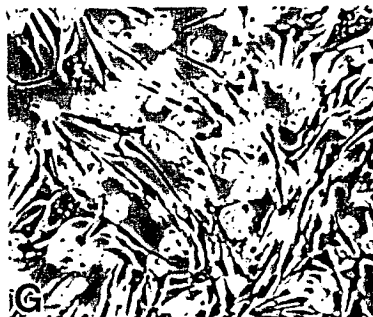


FIG. 2H

FIG. 2I

**A**

STD + -

Bar graph B displays the Percent PI-Positive cells (Y-axis, 0 to 100) for two conditions: SHAM and 10 mJ/cm². For each condition, two groups are compared: NGF 50 ng/ml (white bars) and Diluent (black bars). Error bars represent standard error.

Condition	NGF 50 ng/ml (%)	Diluent (%)
SHAM	~5	~8
10 mJ/cm²	~15	~30

FIG. 3B

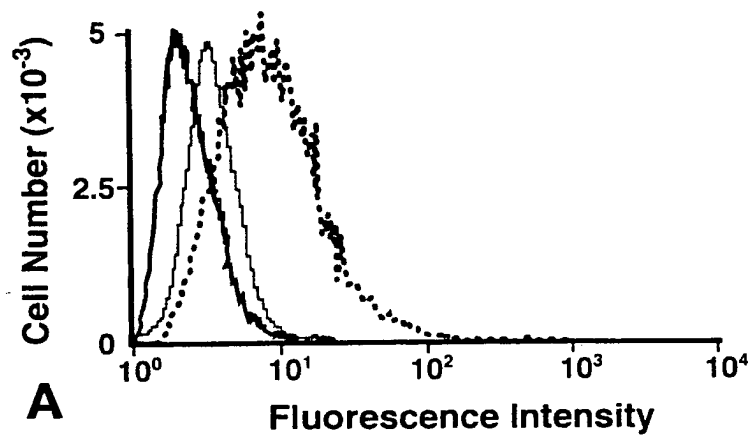


FIG. 4A

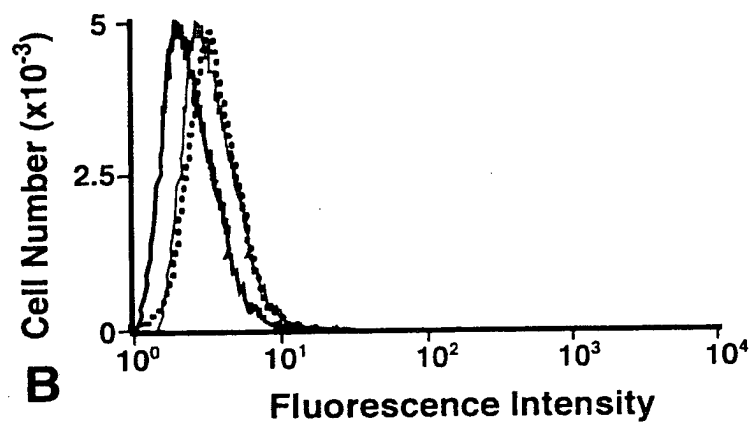


FIG. 4B

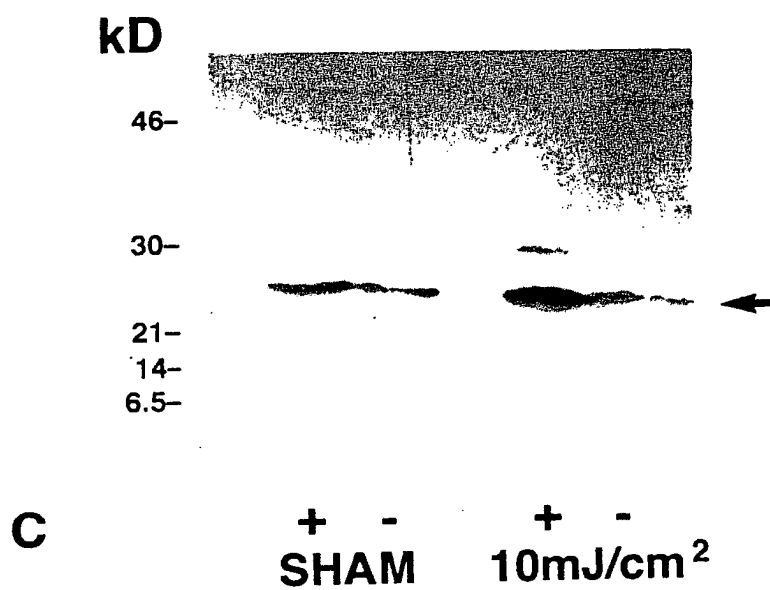


FIG. 4C



FIG. 5A

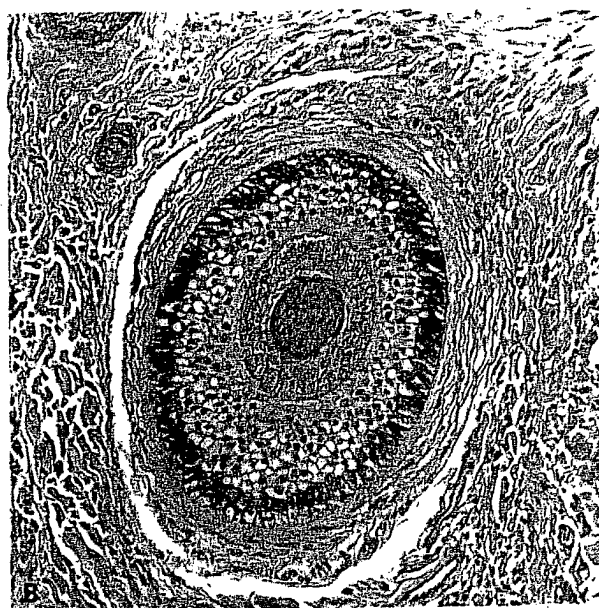


FIG. 5B

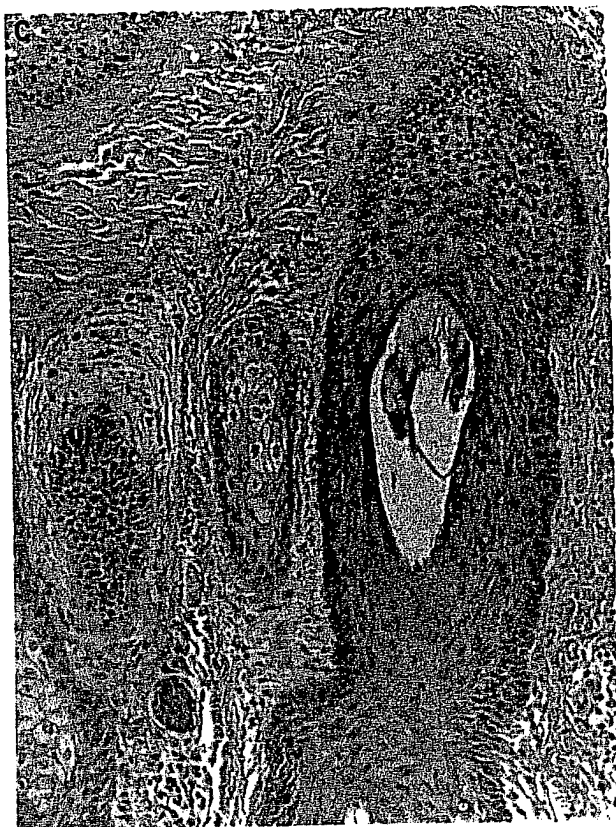


FIG. 5C

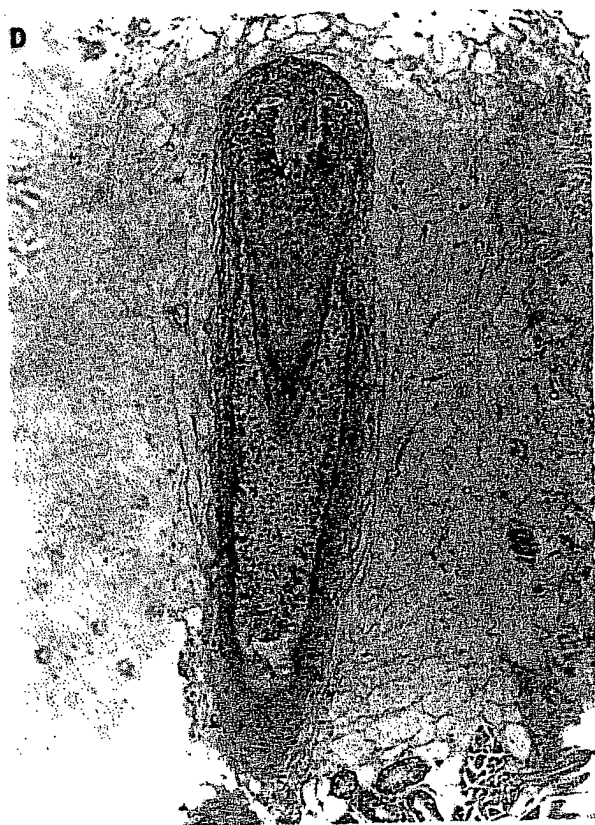


FIG. 5D

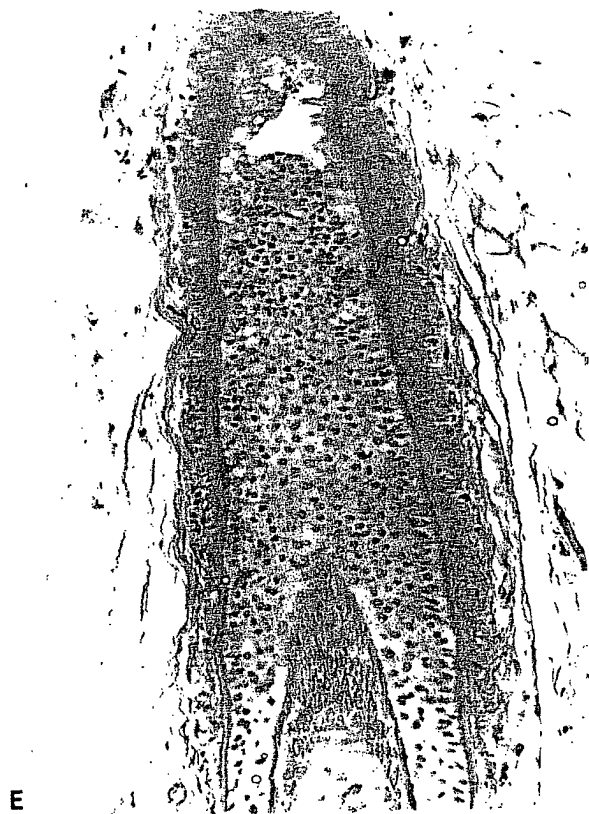


FIG. 5E

+ 50 ng/ml NGF

**p75 NGF-R    SV40-neo**

+

+

**BCL-2 $\alpha$**



25 kD

1

**BCL-2 $\beta$**



21 kD

100

FIG. 6





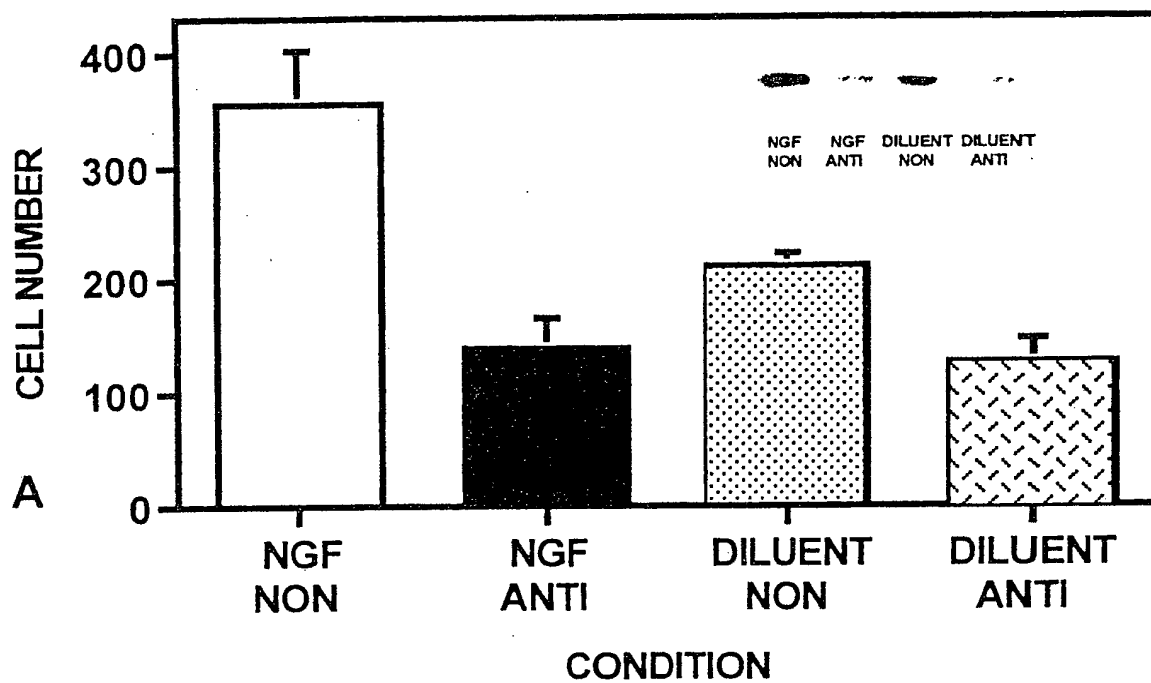


FIG. 8

	+ -		+ -	
STD	UV		SHAM	
1	1	1	1	1
2	1	1	1	1
3	1	1	1	1
4	1	1	1	1
5	1	1	1	1
6	1	1	1	1
7	1	1	1	1
8	1	1	1	1
9	1	1	1	1
10	1	1	1	1
11	1	1	1	1
12	1	1	1	1
13	1	1	1	1
14	1	1	1	1
15	1	1	1	1
16	1	1	1	1
17	1	1	1	1
18	1	1	1	1
19	1	1	1	1
20	1	1	1	1
21	1	1	1	1
22	1	1	1	1
23	1	1	1	1
24	1	1	1	1
25	1	1	1	1
26	1	1	1	1
27	1	1	1	1
28	1	1	1	1
29	1	1	1	1
30	1	1	1	1
31	1	1	1	1
32	1	1	1	1
33	1	1	1	1
34	1	1	1	1
35	1	1	1	1
36	1	1	1	1
37	1	1	1	1
38	1	1	1	1
39	1	1	1	1
40	1	1	1	1
41	1	1	1	1
42	1	1	1	1
43	1	1	1	1
44	1	1	1	1
45	1	1	1	1
46	1	1	1	1
47	1	1	1	1
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49	1	1	1	1
50	1	1	1	1
51	1	1	1	1
52	1	1	1	1
53	1	1	1	1
54	1	1	1	1
55	1	1	1	1
56	1	1	1	1
57	1	1	1	1
58	1	1	1	1
59	1	1	1	1
60	1	1	1	1
61	1	1	1	1
62	1	1	1	1
63	1	1	1	1
64	1	1	1	1
65	1	1	1	1
66	1	1	1	1
67	1	1	1	1
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72	1	1	1	1
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75	1	1	1	1
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80	1	1	1	1
81	1	1	1	1
82	1	1	1	1
83	1	1	1	1
84	1	1	1	1
85	1	1	1	1
86	1	1	1	1
87	1	1	1	1
88	1	1	1	1
89	1	1	1	1
90	1	1	1	1
91	1	1	1	1
92	1	1	1	1
93	1	1	1	1
94	1			

FIG. 9A

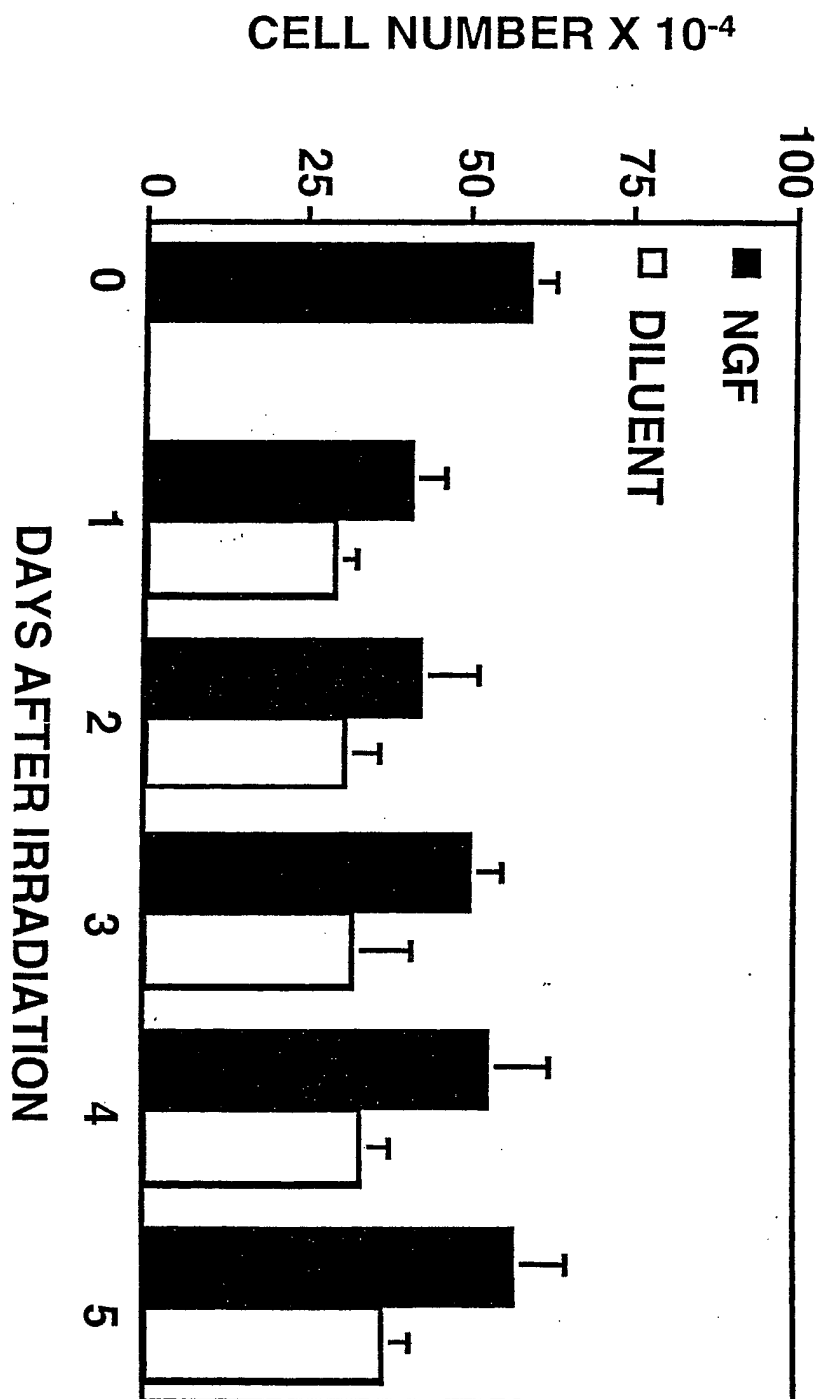
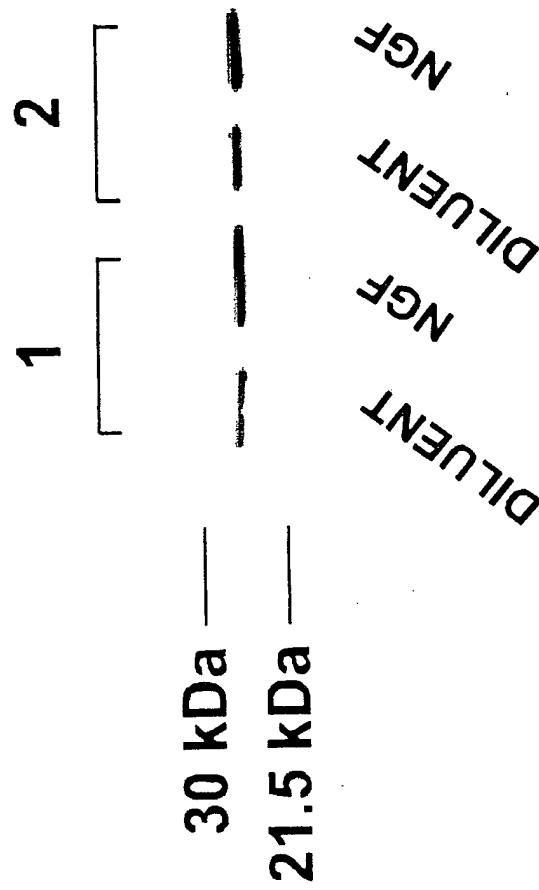


Figure 9B

Figure 9B shows the cell number (x 10<sup>-4</sup>) over 5 days after irradiation for NGF and Diluent groups. The NGF group shows a slight increase in cell number over time, while the Diluent group shows a decrease in cell number over time.

## Days in Depleted Medium



30 kDa —

21.5 kDa —

NGF

**DILUENT**

NGF

**DILUENT**

FIG. 10

$\beta$ -amyloid binds p75<sup>NTR</sup> through amino acids KGAI (28-31)

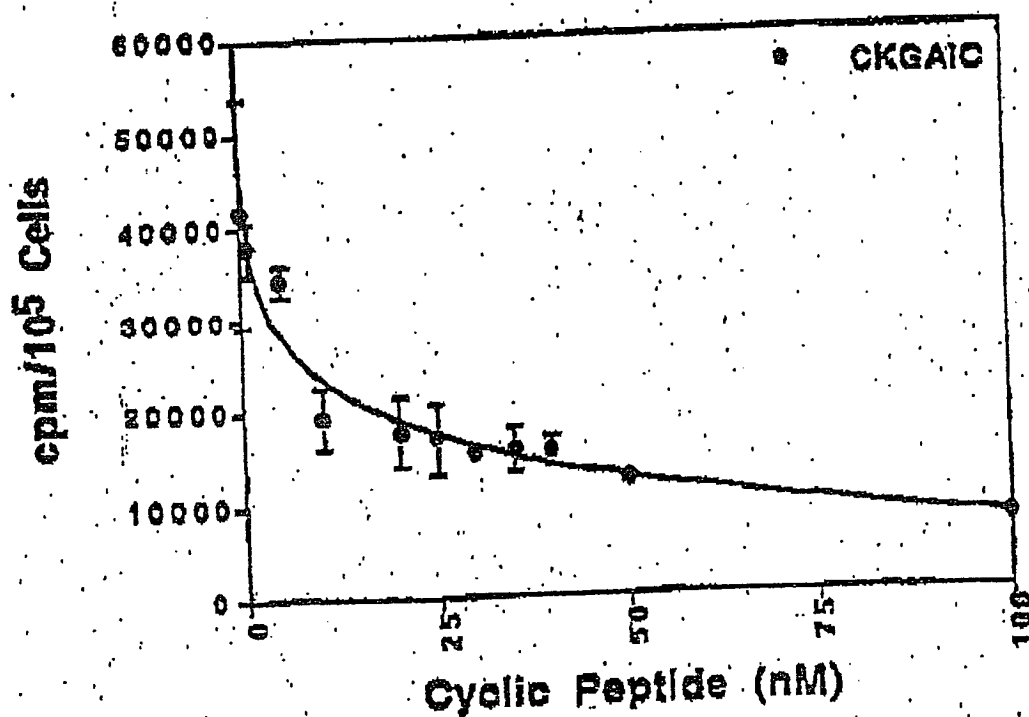


Fig. 11

Fig. 12.

**A**

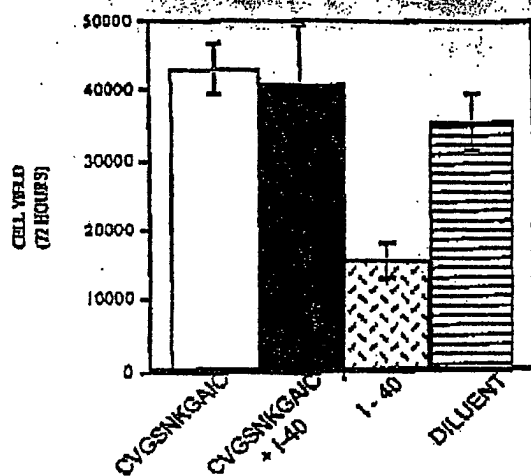


Fig. 12.

**B**

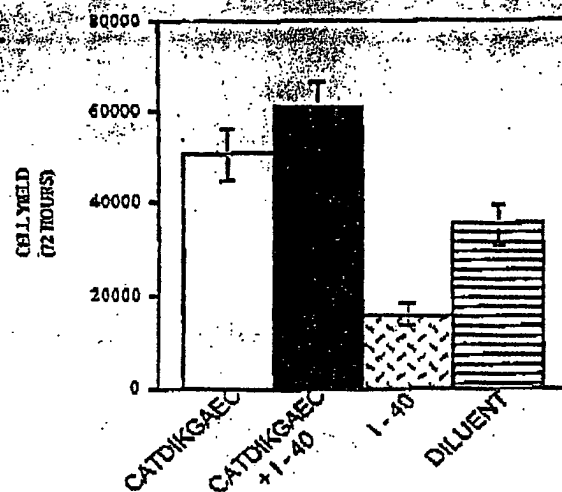
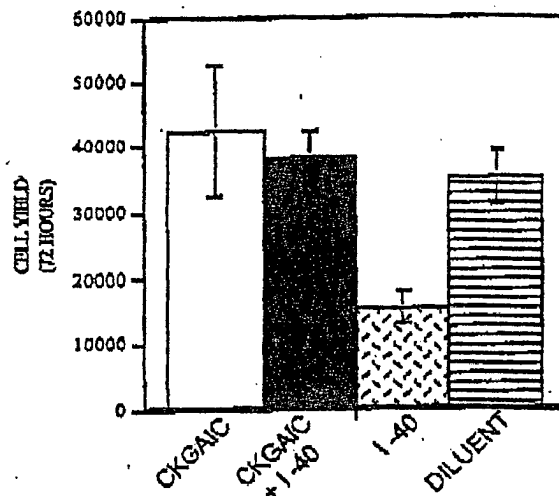


Fig. 12.

**C**



Cyclic peptides containing the amino acids KGA in a turn ( $\beta$  loop) orientation protect p75<sup>NTR</sup> NIH-3T3 cells from A $\beta$  induced cell death

The cyclic peptide CATDIKGAEC decreases  $\beta$  amyloid mediated *c-Jun* transcription

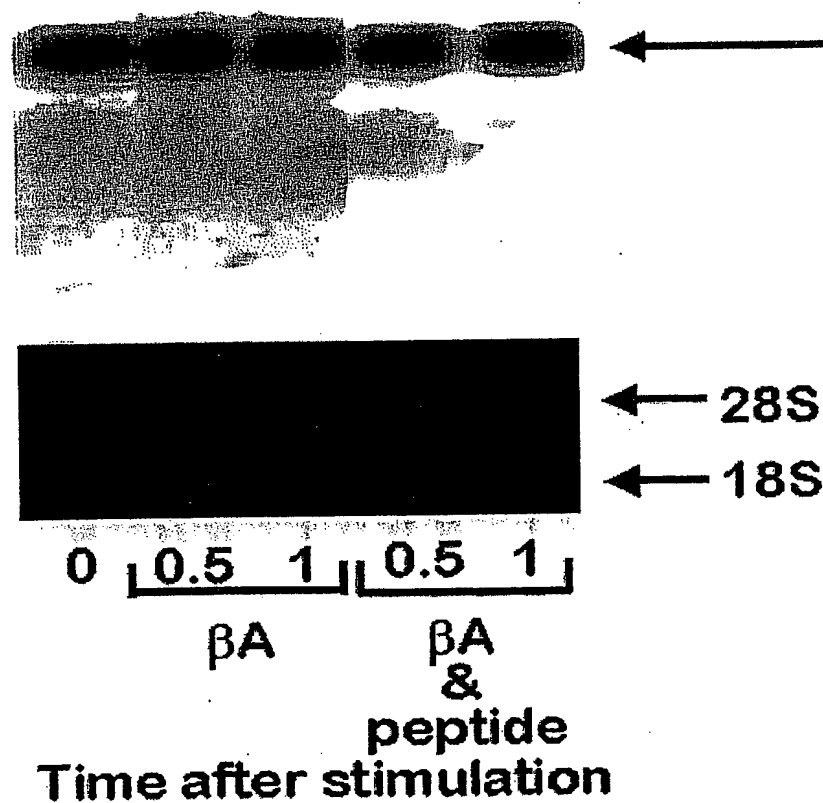


Fig. 13